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THE ROLE OF OPIOID RECEPTORS IN REALIZATION OF PROLACTIN FUNCTION OF ADENOHYPOPHYSIS IN NEUROONCOLOGICAL PATIENTS.

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Induction anesthesia is the first stress-limiting moment of neurooncological operations. Nowadays the use of narcotic analgetics for brain tumor surgery is wide-spread paying attention to considerable prevalence of brainstem opioid receptors. We studied prolactin reactions in 28 neurooncological patients using radioimmunological method in order to determine the role of opioid receptors in the regulatory function of adenohypophysis. In the Ist group of patients fentanyl, mu-opioid receptor antagonist, was used. In the 2nd group butorphanol tartrat, kappa-opioid receptor agonist-antagonist, was used. The increase of prolactin was observed in the Ist group, not in the 2nd one. Our findings show different regulating role of mu- and kappa-opioid receptors in realization of neuroendocrinological reactions during induction anesthesia in neurooncological patients.

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